

REMARKS

This application has been carefully reviewed in light of the Office Action dated October 25, 2005. Claims 1 to 4 remain in the application, of which Claims 1 and 3 are independent. Reconsideration and further examination are respectfully requested.

Claims 1 and 3 were rejected under 35 U.S.C. § 103(a) over U.S. Patent No. 5,926,175 (Sturgeon) in view of U.S. Patent No. 6,529,680 (Broberg), and Claims 1 to 4 were rejected under § 103(a) over U.S. Patent No. 6,084,638 (Hare) in view of U.S. Patent No. 6,373,503 (Perkes) and Broberg. Reconsideration and withdrawal of the rejections are respectfully requested.

The present invention relates to using a display unit and an input/output device of a display apparatus for both the display apparatus and an external apparatus. According to the invention, if a first mode is selected by a remote controller, a control forms a connection between the display apparatus and the external apparatus so as to make the external apparatus recognize the display unit as a monitor of the external apparatus and to make the external apparatus recognize the input/output device connected to the display apparatus as an input/output device of the external apparatus. On the other hand, if a second mode is selected by the remote controller, the control unit disconnects a connection between the display apparatus and the external apparatus so as to make the display unit function as a monitor of the display apparatus, and so as to make the input/output device function as an input/output device of the display apparatus. Thus, single display unit and input/output device connected to the display apparatus can also be used by the external apparatus based on the mode selected by the remote controller.

Referring specifically to the claims, amended independent Claim 1 is a display apparatus, comprising a remote controller, a display unit, a connecting unit capable

of connecting to an external apparatus, and a control unit which controls the display apparatus to either form a connection or to disconnect a connection between the display apparatus and the external apparatus, wherein if a first operating mode is selected by the remote controller, the control unit forms the connection between the display apparatus and the external apparatus so as to make the external apparatus recognize the display unit as a monitor of the external apparatus and to make the external apparatus recognize an input/output device connected to the display apparatus as an input/output device of the external apparatus, and if a second operating mode is selected by the remote controller, the control unit disconnects a connection between the display apparatus and the external apparatus so as to make the display unit function as a monitor of the display apparatus and to make the input/output device connected to the display apparatus function as an input/output device of the display apparatus.

Amended independent Claim 3 is a method claim substantially corresponding to Claim 1.

The applied art is not seen to disclose or to suggest the features of Claims 1 and 3, and in particular is not seen to disclose or to suggest at least the feature of, if a first operating mode is selected by a remote controller, a control unit causes a connecting unit to form a connection between a display apparatus and an external apparatus so as to make the external apparatus recognize a display unit of the display apparatus as a monitor of the external apparatus and to make the external apparatus recognize an input/output device connected to the display apparatus as an input/output device of the external apparatus, and if a second operating mode is selected by the remote controller, the control causes the connecting unit to disconnect a connection between the display apparatus and the external apparatus so as to make the display unit function as a monitor of the display apparatus and

to make the input/output device connected to the display apparatus function as an input/output device of the display apparatus.

Sturgeon merely discloses that an apparatus 100 includes a display unit 110 and a computer system 115 which is controllable by a remote controller 125, where the remote controller can be used to switch modes from a computer (PC) mode to a TV mode by operating a button on the remote controller or by selecting a TV source item on a MENU bar. However, Sturgeon is not seen to disclose or to suggest at least the feature of, wherein if a first operating mode is selected by a remote controller, a control unit causes a connecting unit to form a connection between a display apparatus and an external apparatus so as to make the external apparatus recognize a display unit of the display apparatus as a monitor of the external apparatus and to make the external apparatus recognize an input/output device connected to the display apparatus as an input/output device of the external apparatus, and if a second operating mode is selected by the remote controller, the control causes the connecting unit to disconnect a connection between the display apparatus and the external apparatus so as to make the display unit function as a monitor of the display apparatus and to make the input/output device connected to the display apparatus function as an input/output device of the display apparatus.

The Office Action took Official Notice that toggling a switch is well known in the art and incorporated Broberg for a disclosure of the same. While switches may indeed be well known in the art, the invention is not directed to a switch. Rather, it is directed to an external apparatus recognizing a display unit of a display apparatus as a monitor of the external apparatus when the first mode is selected by the remote controller, and also recognizing the input/output device connected to the display apparatus as an input/output device of the external apparatus. The mere fact that switching between modes

using a switch may be known in the art simply falls short of teaching the foregoing features of the invention. Thus, the Official Notice and the alleged disclosure of Broberg, as well as the other art listed on the Form PTO-892 included with the Office Action, fails to make up for the deficiencies of Sturgeon such that any permissible combination of the references would have rendered the invention obvious.

In view of the foregoing deficiencies, Claim 1 and 3 are believed to be allowable.

With regard to the alternative § 103 rejection over Hare, Perkes and Broberg, Hare merely discloses a system in which the display of a PC can be displayed on a television, thereby permitting users to operate interactive PC games on the screen of a television. However, as admitted in the Office Action, Hare does not disclose a remote controller and therefore, cannot disclose or suggest at least the feature of, if a first operating mode is selected by a remote controller, a control unit causes a connecting unit to form a connection between a display apparatus and an external apparatus so as to make the external apparatus recognize a display unit of the display apparatus as a monitor of the external apparatus and to make the external apparatus recognize an input/output device connected to the display apparatus as an input/output device of the external apparatus, and if a second operating mode is selected by the remote controller, the control causes the connecting unit to disconnect a connection between the display apparatus and the external apparatus so as to make the display unit function as a monitor of the display apparatus and to make the input/output device connected to the display apparatus function as an input/output device of the display apparatus. Nonetheless, the Office Action took Official Notice that the use of a remote controller is well known and cited Perkes as allegedly making up for Hare's deficiencies.

While remote controllers may be known, the invention is not directed to remote controller *per se*, but rather is directed to how an external apparatus and a control unit of a display apparatus function when the remote controller is operated. Specifically, the invention is directed to if a first operating mode is selected by a remote controller, a control unit causes a connecting unit to form a connection between a display apparatus and an external apparatus so as to make the external apparatus recognize a display unit of the display apparatus as a monitor of the external apparatus and to make the external apparatus recognize an input/output device connected to the display apparatus as an input/output device of the external apparatus, and if a second operating mode is selected by the remote controller, the control causes the connecting unit to disconnect a connection between the display apparatus and the external apparatus so as to make the display unit function as a monitor of the display apparatus and to make the input/output device connected to the display apparatus function as an input/output device of the display apparatus. The mere well known use of a remote controller and Perkes' alleged disclosure simply falls short of adding anything that, when combined with Hare, would have resulted in the foregoing features.

In this regard, Perkes is merely seen to disclose a multimedia computer and television apparatus in which a dual mode monitor can display both a TV signal and a computer signal. Perkes further discloses a remote control input device 40 that can be used to operate the computer. However, Perkes discloses nothing regarding, if a first operating mode is selected by a remote controller, a control unit causes a connecting unit to form a connection between a display apparatus and an external apparatus so as to make the external apparatus recognize a display unit of the display apparatus as a monitor of the external apparatus and to make the external apparatus recognize an input/output device

connected to the display apparatus as an input/output device of the external apparatus, and if a second operating mode is selected by the remote controller, the control causes the connecting unit to disconnect a connection between the display apparatus and the external apparatus so as to make the display unit function as a monitor of the display apparatus and to make the input/output device connected to the display apparatus function as an input/output device of the display apparatus.

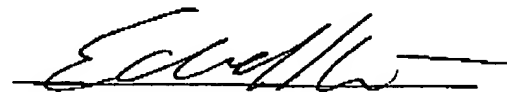
Broberg, as stated above, also fails to teach such a feature.

Accordingly, Claims 1 to 4 are not believed to be have been obvious over Hare, Perkes and Broberg.

In view of the foregoing amendments and remarks, the entire application is believed to be in condition for allowance and such action is respectfully requested at the Examiner's earliest convenience.

Applicants' undersigned attorney may be reached in our Costa Mesa, California office at (714) 540-8700. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,



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